
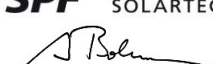


Annex to Solar Keymark Certificate						Licence Number		011-7S264 R								
						Date issued		2019-04-17								
						Issued by		DINCERTCO								
Licence holder			FK Solartechnik GmbH			Country		Germany								
Brand (optional)						Web		www.fksolar.de								
Street, Number			Industriepark Kleinkoschen			E-mail		verkauf@fksolar.de								
Postcode, City			D-01968 Senftenberg			Tel		+49 3573 806725								
Collector Type						Evacuated tubular collector										
Collector name						Power output per collector										
						Gb = 850 W/m ² , Gd = 150 W/m ² & u = 1.3 m/s $\vartheta_m - \vartheta_a$										
						0 K	10 K	30 K	50 K	70 K	122 K					
						mm	m ²	mm	mm	mm	mm	mm				
						mm	m ²	mm	mm	mm	mm					
FK Solinas 3						136	2.27	1'907	1'189	1.40	894	862	796	729	662	482
FK Solinas 3 plus						136	2.27	1'907	1'189	1.38	894	862	796	729	662	482
Power output per m² gross area						394	380	351	322	292	213					
Performance parameters test method			Steady state - outdoor													
Performance parameters (related to A_G)			η_0, b	a1	a2	a3	a4	a5	a6	a7	a8	Kd				
Units			-	W/(m ² K)	W/(m ² K ²)	J/(m ³ K)	-	J/(m ² K)	s/m	W/(m ² K ⁴)	W/(m ² K ⁴)	-				
Test results			0.389	1.43	0.001	0.000	0.00	8'469	0.000	0.00	0.0E+00	1.09				
Incidence angle modifier test method			Steady state - outdoor													
Incidence angle modifier			Angle	10°	20°	30°	40°	50°	60°	70°	80°	90°				
Transversal			K _{GT, coll}	1.01	1.05	1.14	1.28	1.42	1.38	1.09	0.59	0.00				
Longitudinal			K _{BL, coll}	1.00	1.00	1.00	0.99	0.96	0.90	0.78	0.53	0.00				
Heat transfer medium for testing						Water-Glycole										
Flow rate for testing (per gross area, A_G)						dm/dt	0.022	kg/(sm ²)								
Maximum temperature difference during thermal performance test						($\vartheta_m - \vartheta_a$) _{max}	92	K								
Standard stagnation temperature (G = 1000 W/m²; $\vartheta_a = 30$ °C)						ϑ_{stg}	230	°C								
Maximum operating temperature						$\vartheta_{max, op}$	217	°C								
Maximum operating pressure						p _{max, op}	600	kPa								
Testing laboratory			SPF Testing, CH-8640 Rapperswil, Switzerland			www.spf.ch										
Test report(s)			C1744ISO C1745ISO			Dated		16.03.2019 16.03.2019								
Comments of testing laboratory						Datasheet version: 6.0, 2018-10-30										
Thickness of transparent cover [mm]: FK Solinas 3: 1.8 FK Solinas 3 plus: 2.2						 INSTITUT FÜR SOLARTECHNIK 										
DIN CERTCO • Alboinstraße 56 • 12103 Berlin, Germany Tel: +49 30 7562-1131 • Fax: +49 30 7562-1141 • E-Mail: info@dincertco.de • www.dincertco.de																

